

# DATA SHEET

## WIRELESS COMPONENTS

Ceramic Chip Antenna  
ANT5320LL24R2400A

2.4 - 2.5 GHz  
5320 Series



**FEATURES**

- Compact size
- Omni-directional radiation
- Tape & reel automatic mounting
- Reflow process compatible
- RoHS compliant

**APPLICATIONS**

- 2.4 GHz WiFi device
- Bluetooth gadget
- Zigbee device
- ISM band equipment

**ORDERING INFORMATION**

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

**PART NUMBER****ANT 5320 L L24 R 2400A**

(1) (2) (3) (4) (5) (6)

**(1) PRODUCT**

ANT = Antenna

**(2) SIZE**

5320= 5.3 × 2.0 mm

**(3) ANTENNA TYPE**

L,F,A = Chip Antenna

**(4) SERIAL NO.**

L24

**(5) PACKING STYLE**

R = Tape and Reel

**(6) WORKING FREQUENCY**

2400 = 2.4 GHz

**PHYCOMP CTC**

CAN4311753242452K

**I2NC**

431175324245

## SPECIFICATION

Table I

DESCRIPTION	VALUE
Centre Frequency	2.45 GHz
Bandwidth	84 MHz (Typ.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	2.78 dBi (Typ.)
Impedance	50 $\Omega$
Operating Temperature	-40~105 $^{\circ}\text{C}$
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260 $^{\circ}\text{C}$ , 10sec.

## NOTE

I. The specification is defined on Yageo evaluation board

## DIMENSIONS

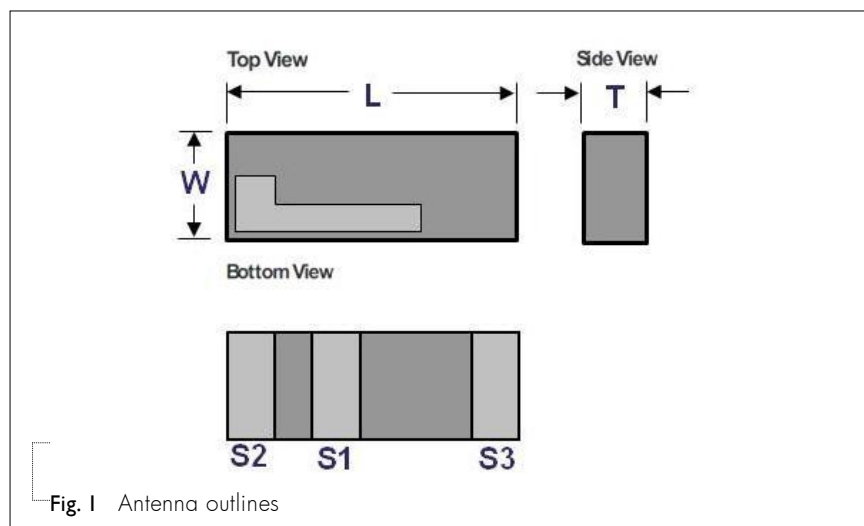
Table 2 Machinical Dimension

	DIMENSION
L (mm)	5.30 $\pm$ 0.10
W (mm)	2.00 $\pm$ 0.10
T (mm)	1.20 $\pm$ 0.10

Table 3 Termination Configuration

TERMINAL NAME	FUNCTION
S1	Feeding Point
S2	Ground Point
S3	Ground Point

## OUTLINES



## REFERENCE DESIGN OF EVALUATION BOARD

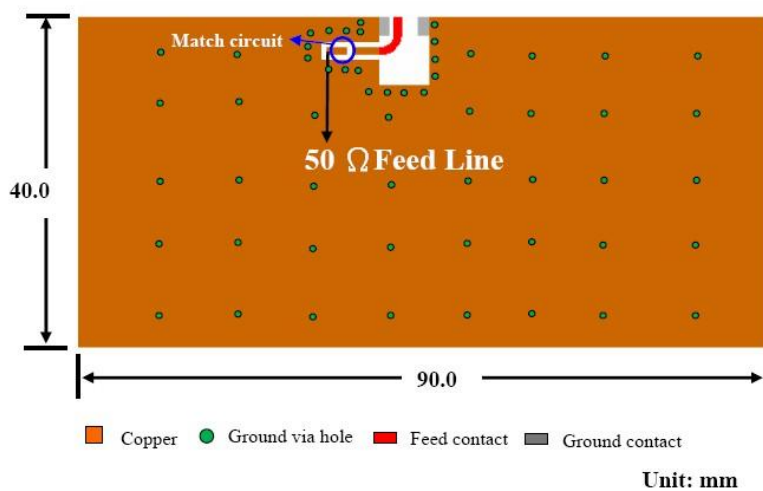


Fig. 2 Outlook and dimension of evaluation board

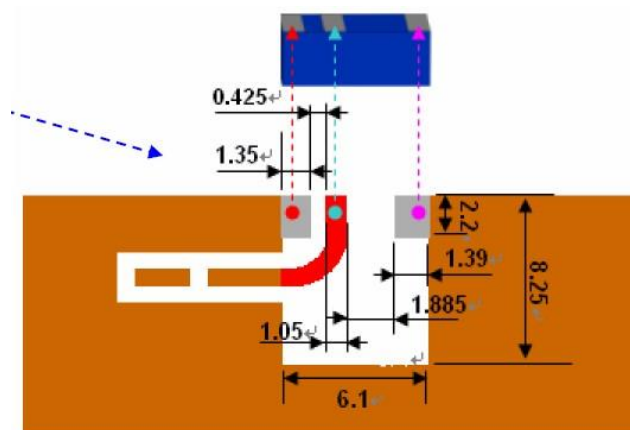


Fig. 3 Dimension of footprint

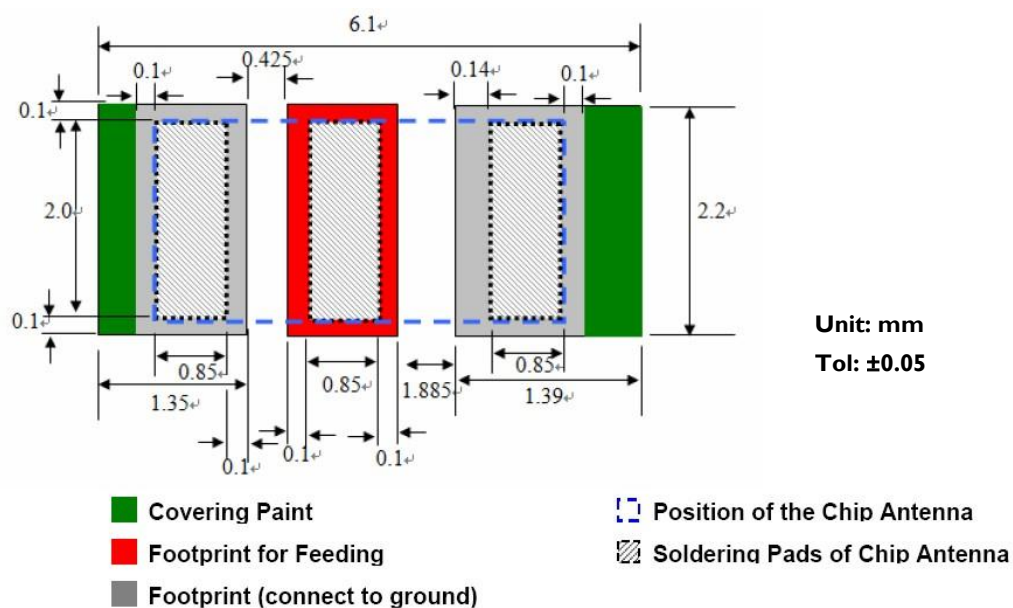


Fig. 4 Details of soldering pad

## ELECTRICAL PERFORMANCES

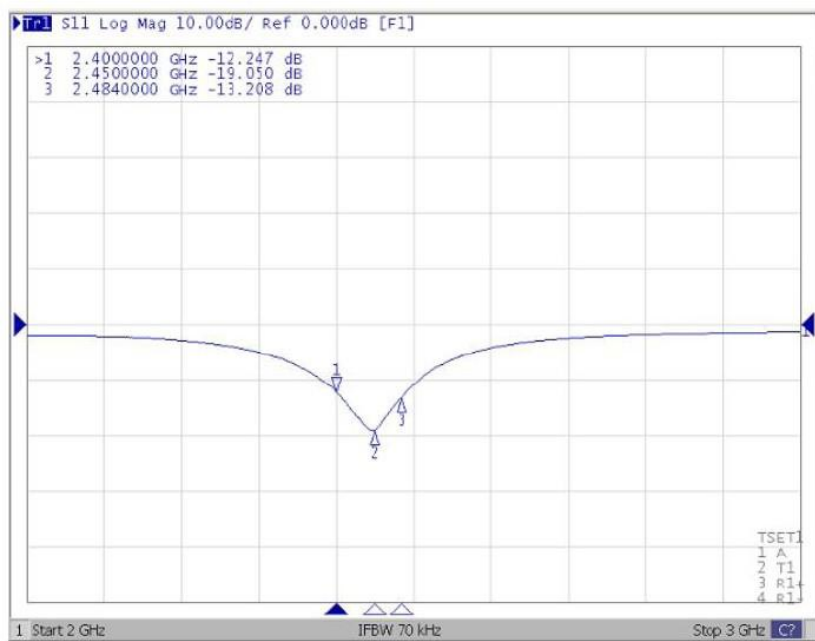
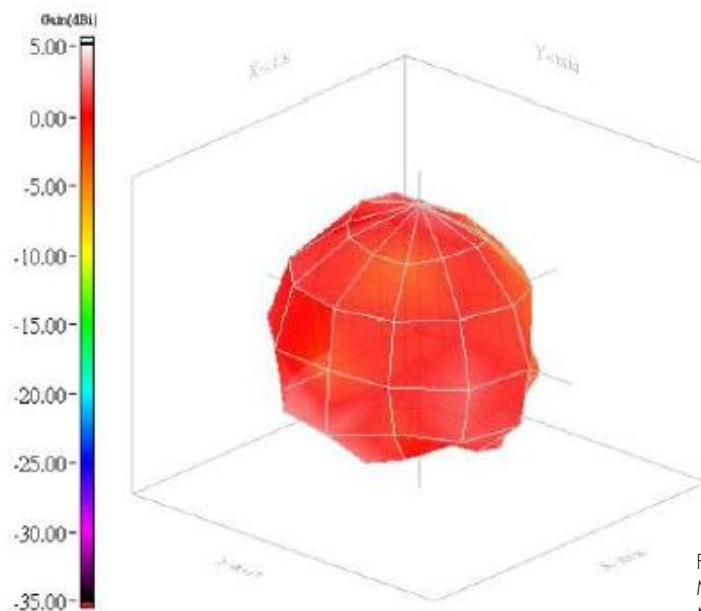


Fig. 5 Return loss



Frequency= 2.45 GHz  
Max gain = 2.78dBi, at (150,150)  
MEG (mean effective gain)= -0.76 dBi  
Directivity (dB) = 3.61  
Efficiency = -0.83dB, 82.66 %

Fig. 6 Radiation pattern

# REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
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Version 1	May. 9, 2017 -	-	Includes Terminal configuration chart
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Version 0	Jan. 23, 2013 -	-	New data sheet for SMD type antenna, 2.45GHz application, 5320 series.
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